Marschel

BIOTECHNOLOGY
SYSTEMS
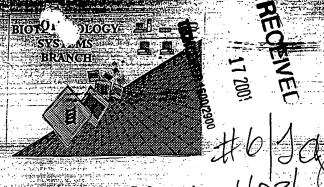BRANCH

RECEIVED 17 2001

#6/9a
1/23/01

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: ___09/486,623___

Source: ___1631___

Date Processed by STIC: ___01-04-01___

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
 PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
 PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).
Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
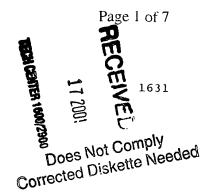http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED   SUGGESTED CORRECTION   SERIAL NUMBER: 09/486,623

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics
The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

2 _____ Wrapped Aminos
The amino acid number/text at the end of each line "wrapped " down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

3 _____ Incorrect Line Length
The rules require that a line not exceed 72 characters in length. This includes spaces.

4 _____ Misaligned Amino Acid Numbering
The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.

5 _____ Non-ASCII
This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

6 _____ Variable Length
Sequence(s) _____ contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.

7 _____ PatentIn ver. 2.0 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) _____. Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence. **This applies primarily to the mandatory <220>-<223>
sections for Artificial or Unknown sequences.**

8 _____ Skipped Sequences (OLD RULES)
Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).

9 _____ Skipped Sequences (NEW RULES)
Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

10 _____ Use of n's or Xaa's (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

11 _____ Use of <213>Organism (NEW RULES)
Sequence(s) _____ are missing this mandatory field or its response.

12 √ Use of <220>Feature (NEW RULES)
Sequence(s) _____ are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.

(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of new Rules)

13 _____ PatentIn ver. 2.0 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

AKS-Biotechnology Systems Branch- 5/15/99

A. MARSCH

```
           RAW SEQUENCE LISTING              DATE: 01/04/2001
           PATENT APPLICATION:  US/09/486,623   TIME: 08:38:43

           Input Set : A:\Isis3292.app
           Output Set: N:\CRF3\01042001\I486623.raw

        3  <110> APPLICANT: Nielsen, Peter E
        5  <120> TITLE OF INVENTION: Peptide Nucleic Acids Having Antibacterial Activity
        7  <130> FILE REFERENCE: ISIS3292
C-->    9  <140> CURRENT APPLICATION NUMBER: US/09/486,623
C-->   10  <141> CURRENT FILING DATE: 2000-07-06
       12  <150> PRIOR APPLICATION NUMBER: 08/932,140
       13  <151> PRIOR FILING DATE: 1997-09-16
       15  <160> NUMBER OF SEQ ID NOS: 27
       17  <170> SOFTWARE: PatentIn Ver. 2.1
       19  <210> SEQ ID NO: 1
       20  <211> LENGTH: 14
       21  <212> TYPE: DNA
       22  <213> ORGANISM: Artificial Sequence
       24  <220> FEATURE:
       25  <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide
       27  <400> SEQUENCE: 1
       28  tgaccatgat tacg                                     14
       31  <210> SEQ ID NO: 2
       32  <211> LENGTH: 17
       33  <212> TYPE: DNA
       34  <213> ORGANISM: Artificial Sequence
       36  <220> FEATURE:
       37  <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide
       39  <400> SEQUENCE: 2
       40  tacgtgtttc ctgtgtg                                  17
       43  <210> SEQ ID NO: 3
       44  <211> LENGTH: 17
       45  <212> TYPE: DNA
       46  <213> ORGANISM: Artificial Sequence
       48  <220> FEATURE:
       49  <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide
       51  <400> SEQUENCE: 3
       52  gagtattcaa catttcc                                  17
       55  <210> SEQ ID NO: 4
       56  <211> LENGTH: 17
       57  <212> TYPE: DNA
       58  <213> ORGANISM: Artificial Sequence
       60  <220> FEATURE:
       61  <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide
       63  <400> SEQUENCE: 4
       64  attgtcttcc ttttca                                   17
       67  <210> SEQ ID NO: 5
       68  <211> LENGTH: 15
       69  <212> TYPE: DNA
       70  <213> ORGANISM: Artificial Sequence
       72  <220> FEATURE:
       73  <221> NAME/KEY: misc_feature
```

Nucleic acid sequences shown.

Peptide is not a valid response.

What is the source of the genetic material in the artificial sequences? See #12 on the Error Summary Sheet.

RAW SEQUENCE LISTING   DATE: 01/01/2001
PATENT APPLICATION: US/09/486,623   TIME: 03:38:43

Input Set : A:\Isis3292.app
Output Set: N:\CRF3\01042001\I486623.raw

```
 74 <222> LOCATION: (1)..(14)
 75 <223> OTHER INFORMATION: Modified site. N-acetyl (2-aminoethyl) glycine
 76       backbone
 78 <220> FEATURE:
 79 <221> NAME/KEY: misc_feature
 80 <222> LOCATION: (15)
 81 <223> OTHER INFORMATION: Modified site. N - [acetyl (2-aminoethy )] -C-
 82       lysine-glycine backbone
 84 <220> FEATURE:
 85 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide
 87 <400> SEQUENCE: 5
 88 ggtcatagct gtttc                                                15
 91 <210> SEQ ID NO: 6
 92 <211> LENGTH: 15
 93 <212> TYPE: DNA
 94 <213> ORGANISM: Artificial Sequence
 96 <220> FEATURE:
 97 <221> NAME/KEY: misc_feature
 98 <222> LOCATION: (1)..(14)
 99 <223> OTHER INFORMATION: Modified Site. N-acetyl (2-aminoethyl) glycine
100       backbone
102 <220> FEATURE:
103 <221> NAME/KEY: misc_feature
104 <222> LOCATION: (15)
105 <223> OTHER INFORMATION: Modified Site. N- [acetyl (2-aminoethyl) ] -C-
106       lysine-glycine backbone
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide
111 <400> SEQUENCE: 6
112 tactcatact cttcc                                                15
115 <210> SEQ ID NO: 7
116 <211> LENGTH: 15
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <221> NAME/KEY: misc_feature
122 <222> LOCATION: (1)..(14)
123 <223> OTHER INFORMATION: Modified Site. N-acetyl (2-aminoethyl) glycine
124       backbone
126 <220> FEATURE:
127 <221> NAME/KEY: misc_feature
128 <222> LOCATION: (15)
129 <223> OTHER INFORMATION: Modified Site. N- [acetyl (2-aminoethyl) ] -C-
130       lysine-glycine backbone
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide
135 <400> SEQUENCE: 7
136 gaatactcat actct                                                15
139 <210> SEQ ID NO: 8
```

refer
to p.1

RAW SEQUENCE LISTING   DATE: 01/04/2001
PATENT APPLICATION: US/09/486,623   TIME: 08:38:43

Input Set : A:\Isis3292.app
Output Set: N:\CRF3\01042001\I486623.raw

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140 <211> LENGTH: 15
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <221> NAME/KEY: misc_feature
146 <222> LOCATION: (1)..(14)
147 <223> OTHER INFORMATION: Modified Site. N-acetyl (2-aminoethyl) glycine
148        backbone
150 <220> FEATURE:
151 <221> NAME/KEY: misc_feature
152 <222> LOCATION: (15)
153 <223> OTHER INFORMATION: Modified Site. N-[acetyl (2-aminoethyl) ] -C-
154        lysine-glysine backbone
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide
159 <400> SEQUENCE: 8
160 acgccacatc ttcgc                                             15
163 <210> SEQ ID NO: 9
164 <211> LENGTH: 15
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <221> NAME/KEY: misc_feature
170 <222> LOCATION: (1)
171 <223> OTHER INFORMATION: Modified Site. N-acetyl (2-aminoethyl) glycine
172        backbone
174 <220> FEATURE:
175 <221> NAME/KEY: misc_feature
176 <222> LOCATION: (2)..(4)
177 <223> OTHER INFORMATION: Modified Site. N-pseudo isocytosine-acetyl
178        (2-aminoethyl) glycine backbone
180 <220> FEATURE:
181 <221> NAME/KEY: misc_feature
182 <222> LOCATION: (5)..(6)
183 <223> OTHER INFORMATION: Modified Site. N-acetyl (2-aminoethyl) glycine
184        backbone
186 <220> FEATURE:
187 <221> NAME/KEY: misc_feature
188 <222> LOCATION: (7)
189 <223> OTHER INFORMATION: Modified Site. N-pseudo isocytosine-acetyl
190        (2-aminoethyl) glycine backbone
192 <220> FEATURE:
193 <221> NAME/KEY: misc_feature
194 <222> LOCATION: (8)
195 <223> OTHER INFORMATION: Modified Site.
196        (O-2-aminoethyl-O'-acetyl-ethyleneglycol), (O-2-
197        aminoethyl-O'-acetyl-ethyleneglycol),
198        (O-2-aminoethyl-O'-acetyl-ethyleneglycol)
200 <220> FEATURE:
```

refer
to p.1

RAW SEQUENCE LISTING   DATE: 01/04/2001
PATENT APPLICATION: US/09/486,623   TIME: 08:38:43

Input Set : A:\Isis3292.app
Output Set: N:\CRF3\01042001\I486623.raw

```
201 <221> NAME/KEY: misc_feature
202 <222> LOCATION: (9)..(14)
203 <223> OTHER INFORMATION: Modified Site. N-acetyl (2-aminoethyl) glycine
204         backbone
206 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <222> LOCATION: (15)
209 <223> OTHER INFORMATION: Modified Site. N- [acetyl (2-aminoethyl) ] -C-
210         lysine-glycine backbone
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide
215 <400> SEQUENCE: 9
216 tnnnttnnct tccct                                         15
219 <210> SEQ ID NO: 10
220 <211> LENGTH: 15
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <222> LOCATION: (1)
227 <223> OTHER INFORMATION: Modified Site. N-pseudo isocytosine-acetyl
228         (2-aminoethyl) glycine backbone
230 <220> FEATURE:
231 <221> NAME/KEY: misc_feature
232 <222> LOCATION: (2)..(4)
233 <223> OTHER INFORMATION: Modified Site. N-acetyl (2-aminoethyl) glycine
234         backbone
236 <220> FEATURE:
237 <221> NAME/KEY: misc_feature
238 <222> LOCATION: (5)..(6)
239 <223> OTHER INFORMATION: Modified Site. N-pseudo isocytosine-acetyl
240         (2-aminoethyl) glycine backbone
242 <220> FEATURE:
243 <221> NAME/KEY: misc_feature
244 <222> LOCATION: (7)
245 <223> OTHER INFORMATION: Modified Site. N-acetyl (2-aminoethyl) glycine
246         backbone
248 <220> FEATURE:
249 <221> NAME/KEY: misc_feature
250 <222> LOCATION: (9)..(14)
251 <223> OTHER INFORMATION: Modified Site. N-acetyl (2-aminoethyl) glycine
252         backbone
254 <220> FEATURE:
255 <221> NAME/KEY: misc_feature
256 <222> LOCATION: (8)
257 <223> OTHER INFORMATION: Modified Site.
258         (O-2-aminoethyl-O'-acetyl-ethyleneglycol),
259         (O-2-aminoethyl-O'-acetyl-ethyleneglycol),
260         (O-2-aminoethyl-O'-acetyl-ethyleneglycol)
```

W--> 216 refer to p.1

```
VERIFICATION SUMMARY                    DATE: 01/04/2001
PATENT APPLICATION:  US/09/486,623      TIME: 08:38:44

     Input Set  : A:\Isis3292.app
     Output Set: N:\CRF3\01042001\I486623.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
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US 094866230GP1

Creation date: 21-08-2003
Indexing Officer: TDANG5 - TIEN DANG
Team: OIPEBackFileIndexing
Dossier: 09486623

Legal Date: 23-04-2002

No.	Doccode	Number of pages
1	A...	5
2	REM	6

Total number of pages: 11

Remarks:

Order of re-scan issued on ....